ABSTRACT

When a home appliance equipped with a processor implementing a conventional JVM with a JIT compiler executes uncompiled methods, the execution speed is slower because the methods are compiled at runtime. To suppress the execution speed reduction, a program execution control device judges, on invocation of a method during program execution, whether a method invoked has previously been compiled. If the method is uncompiled, the device executes the method by interpreting associated bytecodes, and also issues a compilation request for the method. If the method is compiled, the device executes native code having been generated by compiling the method. Compilation of a method requested is executed as a separate task from tasks of instruction execution such as interpreter execution or native code execution.